

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/015847
--

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F25D17/06
--

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ F25D17/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT
--

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 99/047871 A1 (Kabushiki Kaisha Kyoei Dennetsu), 23 September, 1999 (23.09.99), All pages (Family: none)	1-6, 8-10 7
Y	JP 8-200923 A (Kabushiki Kaisha Kawasaki Seisakusho), 09 August, 1996 (09.08.96), All pages (Family: none)	7

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 21 December, 2004 (21.12.04)	Date of mailing of the international search report 22 March, 2005 (22.03.05)
---	---

Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
--	--------------------

Facsimile No.	Telephone No.
---------------	---------------

PATENT COOPERATION TREATY

PCT

**NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT**

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

ISHIDO, Hisako
Nos.317&318, Sanno Urban Life, 1-8
Sanno 2-chome, Ohta-ku, Tokyo
1430023
Japan

Date of mailing (day/month/year) 05 January 2005 (05.01.2005)	
Applicant's or agent's file reference ISHI03-02	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/015847	International filing date (day/month/year) 26 October 2004 (26.10.2004)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 27 October 2003 (27.10.2003)
Applicant KYASCO CO., LTD et al	

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
3. (If applicable) An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
27 Octo 2003 (27.10.2003)	2003-365707	JP	23 Dece 2004 (23.12.2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Patrick BLANCO (Fax 338 9090)
Facsimile No. (41-22) 338.90.90	Telephone No. (41-22) 338 8702

From the INTERNATIONAL BUREAU

PCT

SECOND AND SUPPLEMENTARY NOTICE
INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION (TO DESIGNATED OFFICES
WHICH APPLY THE 30 MONTH TIME
LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

IKEUCHI SATO & PARTNER PATENT ATTORNEYS
26th Floor, OAP TOWER
1-chome, Kita-ku
Osaka-shi, Osaka 530-6026
JAPON

Date of mailing (day/month/year)
02 March 2006 (02.03.2006)

Applicant's or agent's file reference
ISHI03-02

H 2404

IMPORTANT NOTICE

International application No.
PCT/JP2004/015847

International filing date (day/month/year)
26 October 2004 (26.10.2004)

Priority date (day/month/year)
27 October 2003 (27.10.2003)

Applicant

AIR OPERATION TECHNOLOGIES INC. et al

- ATTENTION:** For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), **does not apply**, please see Form PCT/IB/308(First Notice) issued previously.
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, **does apply**, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
12 May 2005 (12.05.2005)

AU, AZ, BY, CN, CO, DZ, EP, HU, KG, KP, KR, MD, MK, MZ, NA, PG, RU, SY, TM, US

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

- The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, **does apply**, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1 :

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BW, BZ, CA, CR, CU, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PH, PL, PT, RO, SC, SD, SG, SK, SL, TJ, TN, TR, TT, UA, UZ, VC, VN, YU, ZA, ZW

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated or elected Office(s) listed above, the applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date.

In practice, **time limits other than the 30-month time limit** will continue to apply, for various periods of time, in respect of certain of the designated or elected Office(s) listed above. For **regular updates on the applicable time limits** (30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

It is the applicant's **sole responsibility** to monitor all these time limits.



The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

特許協力条約

P C T

特許性に関する国際予備報告（特許協力条約第二章）



（法第 12 条、法施行規則第 56 条）
〔P C T 36 条及び P C T 規則 70〕

出願人又は代理人 の書類記号 ISHI03-02 H2404	今後の手続きについては、様式 P C T / I P E A / 4 1 6 を参照すること。	
国際出願番号 P C T / J P 2 0 0 4 / 0 1 5 8 4 7	国際出願日 (日.月.年) 26. 10. 2004	優先日 (日.月.年) 27. 10. 2003
国際特許分類 (I P C) Int.Cl. F25D17/06(2006.01), F25D19/00(2006.01), F25D25/02(2006.01)		
出願人 (氏名又は名称) エアオペレーションテクノロジーズ株式会社		

1. この報告書は、P C T 35 条に基づきこの国際予備審査機関で作成された国際予備審査報告である。
法施行規則第 57 条 (P C T 36 条) の規定に従い送付する。

2. この国際予備審査報告は、この表紙を含めて全部で 3 ページからなる。

3. この報告には次の附属物件も添付されている。

a. 附属書類は全部で 2 ページである。

補正されて、この報告の基礎とされた及び／又はこの国際予備審査機関が認めた訂正を含む明細書、請求の範囲及び／又は図面の用紙 (P C T 規則 70.16 及び実施細則第 607 号参照)

第 I 欄 4. 及び補充欄に示したように、出願時における国際出願の開示の範囲を超えた補正を含むものとこの国際予備審査機関が認定した差替え用紙

b. 電子媒体は全部で _____ (電子媒体の種類、数を示す)。
配列表に関する補充欄に示すように、電子形式による配列表又は配列表に関連するテーブルを含む。
(実施細則第 802 号参照)

4. この国際予備審査報告は、次の内容を含む。

第 I 欄 国際予備審査報告の基礎
 第 II 欄 優先権
 第 III 欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成
 第 IV 欄 発明の単一性の欠如
 第 V 欄 P C T 35 条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
 第 VI 欄 ある種の引用文献
 第 VII 欄 国際出願の不備
 第 VIII 欄 国際出願に対する意見

国際予備審査の請求書を受理した日 3 0 . 0 5 . 2 0 0 5	国際予備審査報告を作成した日 1 3 . 0 2 . 2 0 0 6
名称及びあて先 日本国特許庁 (I P E A / J P) 郵便番号 1 0 0 - 8 9 1 5 東京都千代田区霞が関三丁目 4 番 3 号	特許庁審査官 (権限のある職員) 長崎 洋一 電話番号 0 3 - 3 5 8 1 - 1 1 0 1 内線 3 3 3 7
	3 L 8 6 1 0

第1欄 報告の基礎

1. 言語に関し、この予備審査報告は以下のものを基礎とした。

- 出願時の言語による国際出願
- 出願時の言語から次の目的のための言語である _____ 語に翻訳された、この国際出願の翻訳文
- 国際調査 (PCT規則12.3(a)及び23.1(b))
- 国際公開 (PCT規則12.4(a))
- 国際予備審査 (PCT規則55.2(a)又は55.3(a))

2. この報告は下記の出願書類を基礎とした。(法第6条 (PCT14条) の規定に基づく命令に応答するために提出された差替え用紙は、この報告において「出願時」とし、この報告に添付していない。)

- 出願時の国際出願書類

- 明細書

第 1-12 ページ、出願時に提出されたもの
 第 _____ ページ*、_____ 付けて国際予備審査機関が受理したもの
 第 _____ ページ*、_____ 付けて国際予備審査機関が受理したもの

- 請求の範囲

第 5-10 項、出願時に提出されたもの
 第 1-4, 11, 12 項*、PCT 19条の規定に基づき補正されたもの
 第 _____ 項*、_____ 付けて国際予備審査機関が受理したもの
 第 _____ 項*、_____ 付けて国際予備審査機関が受理したもの

- 図面

第 1/10-10/10 ページ、出願時に提出されたもの
 第 _____ ページ/図*、_____ 付けて国際予備審査機関が受理したもの
 第 _____ ページ/図*、_____ 付けて国際予備審査機関が受理したもの

- 配列表又は関連するテーブル

配列表に関する補充欄を参照すること。

3. 補正により、下記の書類が削除された。

明細書 第 _____ ページ
 請求の範囲 第 _____ 項
 図面 第 _____ ページ/図
 配列表 (具体的に記載すること)
 配列表に関するテーブル (具体的に記載すること) _____

4. この報告は、補充欄に示したように、この報告に添付されかつ以下に示した補正が出願時における開示の範囲を超えてされたものと認められるので、その補正がされなかったものとして作成した。(PCT規則 70.2(c))

明細書 第 _____ ページ
 請求の範囲 第 _____ 項
 図面 第 _____ ページ/図
 配列表 (具体的に記載すること)
 配列表に関するテーブル (具体的に記載すること) _____

* 4. に該当する場合、その用紙に "superseded" と記入されることがある。

第V欄 新規性、進歩性又は産業上の利用可能性についての法第12条(PCT35条(2))に定める見解、それを裏付ける文献及び説明

1. 見解

新規性 (N) 請求の範囲 1-12 有
 請求の範囲 _____ 無

進歩性 (I S) 請求の範囲 1-12 有
 請求の範囲 _____ 無

産業上の利用可能性 (I A) 請求の範囲 1-12 有
 請求の範囲 _____ 無

2. 文献及び説明 (PCT規則70.7)

文献1 : WO 99/047871 A1 (株式会社共栄電熱) 1999. 09. 2
 3, 全頁
文献2 : JP 8-200923 A (株式会社カワサキ製作所) 1996. 08.
 09, 全頁

請求の範囲 1-12 に係る発明は、国際調査報告に引用されたいづれの文献にも記載されておらず、当業者にとって自明なものでもない。